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Ephemeris. For 6^{h} Greenwich Mean Time.

By Mr. Hind, from M. d'Arrest's Second Elements.

1847.	R.A.	N.P.D.	1848.	R.A.	N.P.D.
	h m s	° ′ ″		h m s	° ′ ″
Dec. 24	21 53 52·1	97 54 32	Jan. 7	22 22 12·2	95 33 14
25	55 51·2	45 6	8	24 16·2	22 26
26	57 50·6	35 33	9	26 20·4	11 32
27	21 59 50·5	25 54	10	28 25·0	95 0 33
28	22 1 50·7	16 9	11	30 29·8	94 49 28
29	3 51·3	97 6 18	12	32 34·9	38 19
30	5 52·3	96 56 21	13	34 40·3	27 4
31	7 53·6	46 18	14	36 46·0	15 44
1848. Jan. 1	9 55·2	36 9	15	38 51·9	94 4 20
2	11 57·2	25 54	16	40 58·1	93 52 51
3	13 59·5	15 34	17	43 4·5	41 17
4	16 2·2	96 5 7	18	45 11·2	29 38
5	18 5·2	95 54 35	19	47 18·1	17 55
6	22 20 8·5	95 43 57	20	22 49 25·3	93 6 7

The correction for aberration is not applied in the ephemeris, but may be taken from the table subjoined and added to the ephemeris.

	Corr. for Aberr. R.A.	Corr. for Aberr. N.P.D.	$497^{s}\cdot8 \times \Delta$	Hor. Par.		Corr. for Aberr. R.A.	Corr. for Aberr. N.P.D.	$497^{s}\cdot8 \times \Delta$	Hor. Par.
	s	″	m s	″		s	″	m s	″
Dec. 24	−1·61	+7·6	19 27·8	3·66	Jan. 9	−1·76	+ 9·3	20 21·2	3·50
28	1·65	8·0	19 41·8	3·61	13	1·79	9·7	20 33·5	3·46
Jan. 1	1·68	8·5	19 55·4	3·57	17	1·83	10·0	20 45·4	3·43
5	−1·72	+8·9	20 8·5	3·53	21	−1·87	+10·3	20 56·9	3·40

NEPTUNE.

Observations.

CAMBRIDGE. In the Meridian. (Professor Challis.)

Compared with Mr. Adams's Ephemeris.

1847.	Greenwich M.T.	R.A.	Obs^{d}—Calc^{d}.	N.P.D.	Obs^{d}—Calc^{d}.
	h m s	h m s	s	° ′ ″	″
Sept. 24	9 49 16·6	22 2 4·16	−0·52	102 41 36·6	+0·2
25	45 15·8	1 59·19	·51	42 4·8	1·5
27	9 37 13·9	22 1 49·08	−0·91	102 42 57·4	+1·8

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	Greenwich M.T.			R.A.			Obsd—Calcd.	N.P.D.			Obsd—Calcd.
1847.	h	m	s	h	m	s	s	°	′	″	″
Oct. 6	9	1	11·6	22	1	9·85	−0·57	102	46	28·9	+1·4
7	8	57	11·7		1	5·84	·64		46	48·4	0·0
11		41	13·1		0	50·80	·87		48	7·7	1·2
12		37	13·9		0	47·51	·81		48	25·6	1·0
19		9	21·6		0	26·52	·89		50	17·2	3·1
20		5	23·1		0	23·95	·92		50	29·5	2·1
21	8	1	24·8		0	21·49	·97		50	43·3	3·4
25	7	45	32·9		0	13·27	·70		51	27·5	4·1
26		41	35·2		0	11·43	·72		51	35·9	3·2
Nov. 1		17	51·4		0	3·10	·71		52	16·4	2·2
2	7	13	54·6	22	0	2·18	·67		52	22·3	3·6
10	6	42	24·1	21	59	58·96	·94		52	33·2	3·7
15		22	47·1	22	0	1·49	0·84		52	17·5	4·1
16		18	51·7		0	1·99	(1·21)		52	15·5	(7·5)
18		11	2·4						52	1·0	5·9
19	6	7	7·8	22	0	5·80	−0·83	102	51	51·1	+3·5

“ The parallax 0″·3 is taken account of. On Nov. 16 the observations were very uncertain, the planet being nearly hid by clouds.”

MAKERSTOUN. Equatoreal. (Sir T. M. Brisbane.)

	Makerstoun M.T.		R.A.			N P.D.			No. of Comp.	Star of Comp.	
1847.	h	m	h	m	s	°	′	″			
July 14	12	11	22	8	59·32	102	2	58·8	2	B.A.C.	7821
Aug. 2	10	51		7	20·32		12	25·0	6	—	7722
7	11	10		6	50·55		15	14·6	8		
22	12	16		5	17·32		23	59·3	7		
Sept. 4	10	59		3	56·78				8		
	11	0		3	56·65				15	—	7747
	11	10					31	26·9	3	—	7722
	11	25					31	24·2	7	—	7747
6	10	34		3	44·62		32	30·0	11	—	—
13	8	58		3	3·68		36	13·2	7	—	—
Oct. 25	8	25		0	12·95		51	28·1	5	—	—
27	7	0		0	9·70		51	45·1	7	—	—
28	6	40		0	8·15		51	54·0	10	—	—
29	7	40	22	0	6·50		51	59·1	1	—	—
Nov. 8	7	50	21	59	59·04		52	35·1	8	—	—
9	7	55		59	59·01		52	34·6	8	—	—
12	7	43	21	59	59·70		52	28·6	3	—	—
16	7	47	22	0	2·56		52	11·6	10	—	—
17	8	15		0	3·39		52	5·6	4	—	—
19	7	43		0	5·80		51	49·9	7	—	—
Dec. 3	6	47	22	0	37·65	102	48	52·1	6	—	—

All the observations have been corrected for refraction.

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Ephemeris. By Mr. Adams.

Greenwich Mean Midnight.

1847.	R.A. h	m	s	N.P.D. °	′	″
Dec. 12	22	1	12·85	102	45	37·1
13			17·21		45	13·1
14			21·69		44	48·4
15			26·28		44	23·1
16			30·99		43	57·2
17			35·81		43	30·7
18			40·75		43	3·6
19			45·80		42	35·9
20			50·96		42	7·5
21		1	56·23		41	38·7
22		2	1·60		41	9·3
23			7·08		40	39·2
24			12·67		40	8·6
25			18·36		39	37·4
26			24·15		39	5·7
27			30·05		38	33·4
28			36·04		38	0·6
29			42·13		37	27·3
30			48·32		36	53·4
31		2	54·60		36	19·1
1848. Jan. 1		3	0·98		35	44·2
2			7·45		35	8·8
3			14·01		34	33·0
4			20·66		33	56·6
5	22	3	27·40	102	33	19·8

1848.	R.A. h	m	s	N.P.D. °	′	″
Jan. 6	22	3	34·22	102	32	42·5
7			41·13		32	4·8
8			48·12		31	26·6
9		3	55·20		30	48·0
10		4	2·35		30	9·0
11			9·58		29	29·5
12			16·88		28	49·7
13			24·26		28	9·4
14			31·70		27	28·8
15			39·22		26	47·8
16			46·80		26	6·4
17		4	54·45		25	24·7
18		5	2·17		24	42·6
19			9·94		24	0·2
20			17·78		23	17·5
21			25·67		22	34·4
22			33·62		21	51·0
23			41·62		21	7·4
24			49·68		20	23·4
25			57·79		19	39·2
26		6	5·95		18	54·7
27			14·15		18	9·9
28			22·41		17	24·9
29			30·70		16	39·7
30			39·04		15	54·2
31	22	6	47·43	102	15	8·5

Horizontal Parallax = 0″·28.

Sweeping Ephemeris for the expected Comet of 1264 *and* 1556 From Mr. Hind's Tables in the *M. Notice* for April 1847, p. 264.

	P.P. Feb. 10.				P.P. March 11.				P.P. April 10.			
	R.A.		N.P.D.		R.A.		N.P.D.		R.A.		N.P.D.	
1848.	h	m	°	′	h	m	°	′	h	m	°	′
Jan. 1	15	23	105	24	13	37	105	58				
11	16	31	105	14	14	18	107	15	12	44	106	41
21	17	49	103	40	15	12	107	52	13	7	108	2
31	19	12	100	53	16	23	107	5	13	38	109	13
Feb. 10	20	33	97	56	17	50	103	59	14	22	109	54
20	21	46	95	31	19	20	98	54	15	32	109	3

As the Comet is expected to appear very shortly, if at all, observers are particularly requested to be on the look-out for it.